



WeldComputer

The Technology Leader in Resistance Welding

Made in the USA

Protecting the Welder with a State-of-the Art Control

Reliably protecting welding operators from crushed fingers and hands caused by the clamping action of resistance welding electrodes is an important concern for all manufacturers.



For over twenty years, WeldComputer Corporation has been delivering resistance welding controls capable of sensing, quantifying, and correcting for variations in – among other key welding parameters - conductance, workpiece thickness, and electrode force. Since May, 1985, adaptive weld schedules have been in operation that bring a welding head down at low force, perform checks to verify that the electrodes are in contact with the workpiece (and not a foreign object), switch to weld force and complete the weld. This collection of technologies – referred to as “Tip Travel Force Control” or “TTFC” – can be configured with any new or existing WeldComputer® Adaptive Control or L-Series Control to prevent serious injury to an operator who inadvertently gets his/her hand in harm’s way.

The TTFC is designed to bring the welding head down at low force, assure that the electrodes are in contact with the workpiece before increasing the force and completing the weld, or abort the weld at low force and raise the head if such assurance is not achieved. Any foreign object detected – like a finger or hand - will halt the welding operation before the application of high electrode force can cause serious injury.

For new WeldComputer® Adaptive Control or L-Series Control installations simply specify TTFC capability and have the equipment installed by a WeldComputer Authorized Distributor. For existing WeldComputer® Adaptive Control or L-Series Control installations Tip Travel Force Control can be accomplished in a number of ways. Many existing WeldComputer® Adaptive Controls are already equipped with the features needed to implement TTFC; these systems simply need the weld schedule and control security level to be properly set up. Manufacturers with WeldComputer installations that are not equipped with all of the features needed to implement TTFC can be upgraded in the field.

WeldComputer field upgradeable options include, but are not limited to the monitoring and/or control of tip travel force, electrode position, current, voltage, conductance, power, cylinder pressures, and in the case of seam welders, wheel position and velocity. Also, inexpensive software upgrades are available that can provide older units with many of the features of a recently purchased product. Some of these upgrades are also available for L-Series control installations.

WeldComputer authorized personnel can review any existing installation, identify what options are present, and install the appropriate upgrades to implement the TTFC functions. On-site training can also be provided on how to optimize welding performance and monitor the quality of every weld, without the need for destructive testing.

For more information please visit
our website at
www.weldcomputer.com